

The Goddard Earth Sciences Distributed Active Archive Center

<http://daac.gsfc.nasa.gov>

The Web Hierarchical Ordering Mechanism (WHOM) a tool for ordering HDF and HDF-EOS Data

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Search and Order Interface a.k.a. WHOM

- **W**eb-based interface to GES DAAC data holdings
- **H**ierarchical organization of data into tables allows for navigation of data
- **O**rdering **M**echanism places selected data into “shopping cart”



WHOM Advantages

- Hierarchical structure allows one to quickly navigate to data of interest
- Easily identify temporal and spatial data coverage via calendar and color-coded map tools
- High speed searches and results returned (catalog is local)
- On-demand subsetting (e.g. MODIS L1B)
- On-the-fly subsetting (e.g. MODIS L3 Ocean)
- Customizable pages by data set or product
- Access to data pool (direct ftp downloading)

Primary Data Sets

Data Set	Format	Temporal Coverage
AVHRR Pathfinder	HDF (binary subsets)	Jul 1981 to Oct 2001
CZCS	Binary	Oct 1978 to Jun 1986
DAO	Binary	Mar 1980 to Nov 1993
MODIS (Terra and Aqua)	HDF-EOS, HDF (binary and HDF-EOS subsets)	Feb 2000 to Present
SeaWiFS	HDF	Dec 1996 to Present
TOMS	HDF	Nov 1978 to Present
TOVS Pathfinder	HDF (binary subsets)	Nov 1978 to Jul 1995
TRMM	HDF	Dec 1997 to Present
UARS	Binary	Sep 1991 to Sep 2001
DAS	<i>HDF-EOS</i>	<i>(coming soon)</i>
AIRS	<i>HDF-EOS</i>	<i>(coming soon)</i>
SORCE	<i>HDF5</i>	<i>Jan 2003 (launch)</i>
Aura (HIRDLS, MLS and OMI)	<i>HDF5-EOS</i>	<i>Jan 2004 (launch)</i>

WHOM Tutorial Starting Point

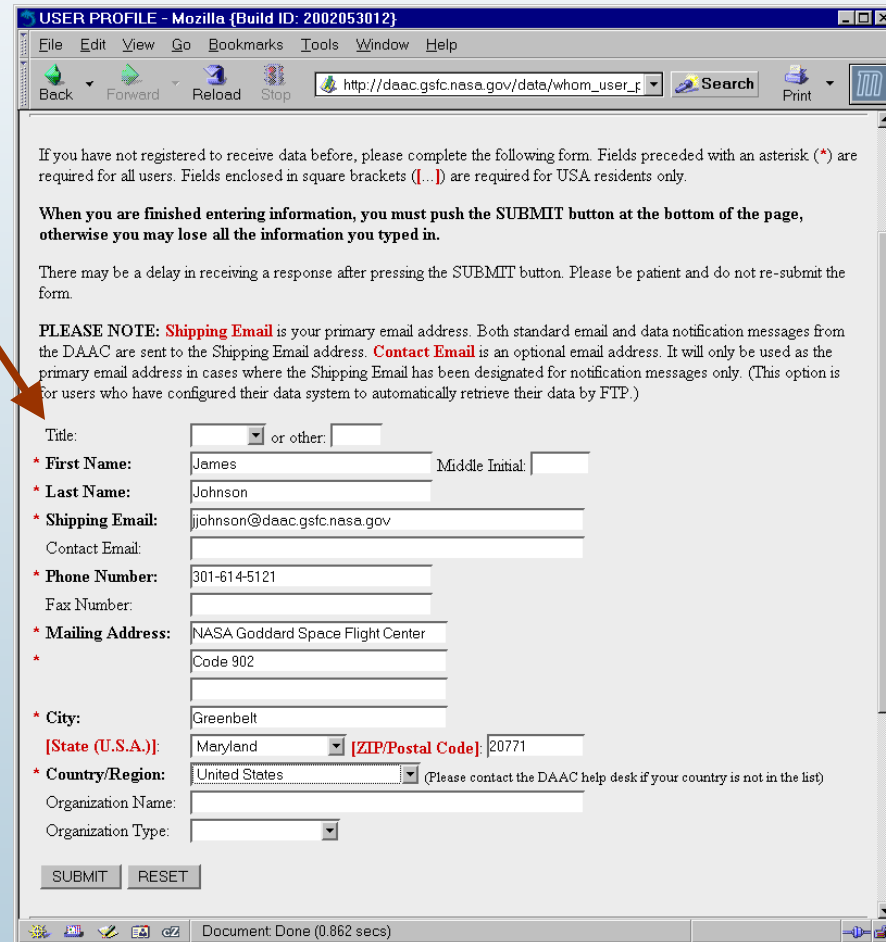
- Web Address:
<http://daac.gsfc.nasa.gov/data/>
- If you're not registered, click on "New User Registration" first
- Then choose a "View"
 - Data Set or
 - Data Pool



WHOM Registration

Before one can order data from the GES DAAC one needs to fill out the registration form

Information is only used for mailing out data orders or for contacting user regarding recent orders (see disclaimer)



The screenshot shows a Mozilla browser window titled "USER PROFILE - Mozilla {Build ID: 2002053012}" with the address bar displaying "http://daac.gsfc.nasa.gov/data/whom_user_f". The page contains a registration form with the following fields and instructions:

If you have not registered to receive data before, please complete the following form. Fields preceded with an asterisk (*) are required for all users. Fields enclosed in square brackets ([]) are required for USA residents only.

When you are finished entering information, you must push the SUBMIT button at the bottom of the page, otherwise you may lose all the information you typed in.

There may be a delay in receiving a response after pressing the SUBMIT button. Please be patient and do not re-submit the form.

PLEASE NOTE: Shipping Email is your primary email address. Both standard email and data notification messages from the DAAC are sent to the Shipping Email address. Contact Email is an optional email address. It will only be used as the primary email address in cases where the Shipping Email has been designated for notification messages only. (This option is for users who have configured their data system to automatically retrieve their data by FTP.)

The form fields are as follows:

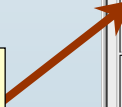
- Title: [dropdown] or other: [text]
- * First Name: James Middle Initial: [text]
- * Last Name: Johnson
- * Shipping Email: jjohnson@daac.gsfc.nasa.gov
- Contact Email: [text]
- * Phone Number: 301-614-5121
- Fax Number: [text]
- * Mailing Address: NASA Goddard Space Flight Center
- [text]
- * City: Greenbelt
- [State (U.S.A.)]: Maryland [ZIP/Postal Code]: 20771
- * Country/Region: United States (Please contact the DAAC help desk if your country is not in the list)
- Organization Name: [text]
- Organization Type: [dropdown]

At the bottom of the form are buttons for "SUBMIT" and "RESET". The status bar at the bottom of the browser window shows "Document Done (0.862 secs)".

WHOM Data Set View

Table Listing of all GES
DAAC Data Sets

Scroll Down and Choose
MODIS (Terra)



DAU	gridded atmospheric data for use in climate research. With a resolution of $2^\circ \times 2.5^\circ$ lat lon by 20 levels at 0 and 3 hour intervals, the dataset contains various parameters such as upper air heights, winds, temperature, and moisture as well as numerous derived quantities.
IDC	The Interdiscipline Data Resources contain five data collections containing global climatology data at various temporal and spatial resolutions. These data collections have been acquired from numerous sources and made available, by the Goddard DAAC, in an integrated form to support researchers who are interested in Interdiscipline science. Currently only the Climatology Interdisciplinary Data Collection CD set is accessible through the Goddard DAAC Search and Order page.
LIMS	The Limb Infrared Monitor of the Stratosphere (LIMS) instrument measured vertical profiles of temperature, geopotential height, and mixing ratios of ozone (O_3), nitrogen dioxide (NO_2), water vapor (H_2O), and nitric acid (HNO_3). The LIMS instrument was launched on the Nimbus-7 satellite and was operational for about seven months from 25 October 1978 until May 28, 1979.
MODIS	The Moderate Resolution Imaging Spectroradiometer (MODIS) is one of many Earth-observing instruments on board the EOS Terra satellite. It provides images of land, ocean and atmosphere in 36 spectral bands (from $0.4\mu m$ to $14.5\mu m$) with spatial resolutions of 250m (bands 1-2), 500m (bands 3-7) and 1000m (bands 8-36).
MODIS-Aqua	The Moderate Resolution Imaging Spectroradiometer (MODIS) is one of many Earth-observing instruments on board the EOS Aqua satellite. It provides images of land, ocean and atmosphere in 36 spectral bands (from $0.4\mu m$ to $14.5\mu m$) with spatial resolutions of 250m (bands 1-2), 500m (bands 3-7) and 1000m (bands 8-36).
MSU	Data from the MSU LMB93 processing is available in two formats, namely, the Hierarchical Data Format (HDF) and a native format originally used by the data producer. In both cases, separate files are provided for the Lower Tropospheric Temperature (LTT), the Upper Tropospheric Temperature (UTT), the Lower Stratospheric Temperature (LST) and the Oceanic Precipitation (OP). Each HDF file contains a single year of daily grids at 2.5 degree resolution. The native format files contain all 16 years of data in single files, except for precipitation which is separated by year as in the case of the HDF version of the data. The data and read programs are available for both data formats via anonymous FTP.
OCTS	The Sea-viewing Wide Field-of-view Sensor Project provides quantitative data on global ocean bio-optical properties to the Earth science community. Subtle changes in ocean color signify various types and quantities of marine phytoplankton (microscopic marine plants), the knowledge of which has both scientific and practical applications.
SEAWIFS	The Sea-viewing Wide Field-of-view Sensor Project provides quantitative data on global ocean bio-optical properties to the Earth science community. Subtle changes in ocean color signify various types and quantities of marine phytoplankton (microscopic marine plants), the knowledge of which has both scientific and practical applications.

MODIS Products and WHOM Standard Features

The screenshot shows the MODIS Data Products website interface. Callout boxes highlight the following features:

- Button Bar for Registration, Order Status, and Help (FAQ):** A row of buttons including 'New User Registration', 'Update Registration', 'Review Order', 'Cancel Order', 'Submit Order', and 'HELP'.
- Free-Text Search of all documents across GES DAAC:** A search bar with 'Enter Query' and 'Text Search' buttons, and a link to 'Advanced Text Search'.
- Message Center with Warnings and Alerts:** A section containing an 'ALERT' about system maintenance and a 'NOTICE' about the ECS Data Pool.
- Page Description:** A paragraph welcoming users to the MODIS data access system and providing information about data formats and support.
- Table with "View" (here Products Grouped by Discipline), Short Description, and Stats (here Date Range):** A table with columns 'User View', 'Description', 'Begin Date', and 'End Date'.
- Important Hyperlinks:** A row of logos and links including 'NASA', 'GSFC', 'Goddard DAAC', 'MODIS DATA SUPPORT', 'Global Change Master Directory', and 'back to TOP'.

User View	Description	Begin Date	End Date
Radiances and Geolocation	MODIS Level 1A and Level 1B data (Radiance counts, calibrated radiances and geolocation)	2000-03-17 00:00:00	2002-11-20 11:55:00
Atmosphere	MODIS Atmospheric Level 2 and Level 3 data	2000-03-17 00:00:00	2002-11-20 10:00:00
Ocean	MODIS Ocean Level 2 , Level 3 and Level 4 data	2000-03-01 00:00:00	2002-11-14 05:45:00

MODIS Radiances and Geolocation Data

Select Level 1B
Calibrated
Radiances at 1km
Resolution
(MOD021KM)

Next Choose a
Year from the List
(for this example
pick 2002)

The screenshot shows two browser windows. The left window displays the 'MODIS Radiances and Geolocation Data Products' page with a table of data products. The right window displays the 'MODIS Level 1B Calibrated Radiances 1km Data' page with a table of years.

MODIS Radiances and Geolocation Data Products - Mozilla (Build ID: 2002053012)

GES DISC DAAC (GSFC DAAC)

MODIS Rad Geolocation Data

New User Registration Update Registration Review Order

ALERT The GES DAAC Search and Order mechanism will be unavailable due to system maintenance on Wednesday, 27 November 2002 from 06:00 to 16:00 EST. MODIS data can not be ordered during this time.

NOTICE The ECS Data Pool is now online and also available at the following ftp location: <ftp://g0dps01u.ecs.nasa.gov>

Each link in the **Data Product** column below takes you to a list of

Data Product	Description
Rad Counts	Level 1A Radiance Counts data (MOD01).
Geolocation	Level 1A Geolocation data (MOD03).
Cal Rad 1km	Level 1B Calibrated Radiances 1km data (MOD021KM).
Cal Rad hkm	Level 1B Calibrated Radiances 0.5km data (MOD02HKM).
Cal Rad qkm	Level 1B Calibrated Radiances 0.25km data (MOD02QKM).
Onboard Calibration	Level 1B Onboard Calibrator/Engineering data (MOD02OBC).
Cal Rad 5km Subsampled Binary	Level 1B Calibrated Radiances 5km Subsampled Binary (MOD02SSN).

MODIS Level 1B Calibrated Radiances 1km Data - Mozilla (Build ID: 2002053012)

GES DISC DAAC (GSFC DAAC)

MODIS Level 1B Calibrated Radiances 1km Data

New User Registration Update Registration Review Order Cancel Order Submit Order HELP







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Each link in the **Year** column below takes you to a calendar where you will be able to make your temporal selection.

Year	Begin Date	End Date	Number of Items	Average Item Size (Kb)
2000	2000-03-17 00:00:00	2001-01-01 00:00:00	79122	259698
2001	2001-01-01 00:00:00	2002-01-01 00:00:00	99863	259704
2002	2002-01-01 00:00:00	2002-11-20 11:55:00	90943	259598

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MODIS User Services: 301-614-5473; Fax: 301-614-5304 -- daac_usg@gsfc.srvr4.gsfc.nasa.gov
 Goddard DAAC Help Desk: 301-614-5224 or 1-877-422-1222 -- daacuso@daac.gsfc.nasa.gov
 Web Curator -- web-curator@daac.gsfc.nasa.gov
 NASA Official: Steve Kempler, DAAC Manager -- kempler@daac.gsfc.nasa.gov

Last updated: 2002-11-21 07:40:50

WHOM Calendar

Calendar visually indicates data version and number of granules per day.

A second option to temporally select data using pulldown menus is available

Easily move to another year

Pick a recent day in November

The screenshot shows the NASA DAAC website for MODIS Level 1B Calibrated Radiances 1km Data for 2002. The page includes a search bar, a NASA logo, and a title. Below the title are buttons for 'New User Registration', 'Update Registration', 'Order Status', 'HELP', and 'Send Comments'. An 'ALERT' box states that the GES DAAC Search and Order mechanism will be unavailable on Wednesday, 27 November 2002. A 'NOTICE' box mentions the ECS Data Pool is now online. The 'Order Options' section lists two steps: clicking on a highlighted day and using the 'Temporal Order' section. A year selection menu shows '2000', '2001', and '2002'. A 'granule counts' table lists versions 001, 003, and 004. The main content area displays a calendar for 2002, with months from January to December. Each month's calendar shows days with granule counts. A green circle highlights the number '10' in the November calendar, indicating a recent day.

WHOM Spatial Search

Color coded map shows granule coverage
(Java and non-Java pages are available)

Set attribute to "Day" and pick a spatial box region
(how about the San Francisco area)

"Attribute Option" allows type of granule to be selected (Day, Night and/or Both)
(click "Regenerate Map" button if this is changed)

MODIS MOD021KM Data for 2002-NOV-19 - Mozilla (Build ID: 2002053012)

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop <http://daac.gsfc.nasa.gov/daac-bin/whom/m> Search Print

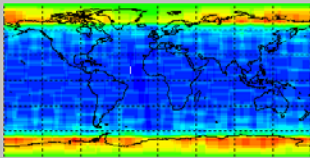
MODIS MOD021KM Data for 2002-NOV-19

New User Registration Update Registration Order Status HELP Send Comments

Select Spatial Range and filter by [Attributes](#)

The map below uses a Java applet that may take several seconds to load. This map allows Java capable browsers to create a spatial search box. Using your mouse, click on the map and drag the mouse to create the boundaries of a box. Alternatively, the latitude and longitude boundaries for a region can be provided in decimal form (not degrees, minutes, seconds). Use "+" for North and East and "-" for South and West. Coordinates must be entered if the WWW browser is not Java-enabled.

In case the applet does not show up or does not work properly use [No Applet Page](#)



West Longitude South Latitude
East Longitude North Latitude

ShiftMap

Color area ☐ ☐ ☐ ☐ ☐ ☐

Number of granules per area 1 7 13 19 26

Display no more than 50 items per page.

Start Search Reset

Attribute Option

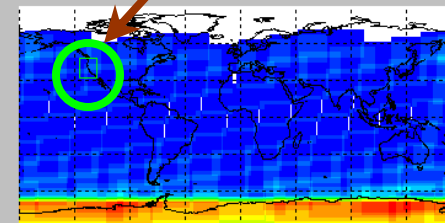
Below you have the option to select granules by attributes. Click here for [attribute definitions](#)

SELECT DAY/NIGHT ATTRIBUTE: Day+Night+Both

Regenerate Map

Document Done (0.711 secs)

In case the applet does not show up or does not work properly use [No Applet Page](#)



West Longitude South Latitude
East Longitude North Latitude

ShiftMap

Color area ☐ ☐ ☐ ☐ ☐ ☐

Number of granules per area 1 6 11 16 21

And Start Search ...

WHOM Spatial Search Results

MODIS Level 1B Calibrated Radiance 1km Data - Mozilla (Build ID: 2002053012)

GES DISC DAAC (GSPC DAAC)

MODIS Level 1B Calibrated Radiance 1km Data

Your search criteria and results are listed below.

1. Select the item(s) in the granule table.

2. Click the "Add Selections to Order" button located at the bottom of the page to order the selected items.

For accessing the on-demand channel subsetting, follow the instructions given below the granule table.

List of Your Search Criteria

DATA SET	MODIS
PRODUCTS	MOD021KM
SEARCH TYPES	TimeSearch,RectangularSearch,AttnSearch
START DATE	NOV 19 2002 00:00:00
END DATE	NOV 19 2002 24:00:00
MIN_LON	-131
MAX_LON	-117
MIN_LAT	32
MAX_LAT	48
MAX_RETURN	50
Total granules	4
Total volume	1375.139 MB

4 granules found for product MOD021KM.
Page 1: items 1 through 4; with volume of 1375.139 MB.

Item ID	Begin Date	End Date	Version	Day/Night Flag	Item Size (KB)	Select to Order	Select to Image
MOD021KM.A2002323.1815.004.2002324054500.hdf	2002-11-19 18:15:00	2002-11-19 18:20:00	004	Day	353335	<input type="checkbox"/>	<input type="checkbox"/>
MOD021KM.A2002323.1820.004.20023240549399.hdf	2002-11-19 18:20:00	2002-11-19 18:25:00	004	Day	351603	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MOD021KM.A2002323.1955.004.20023240937337.hdf	2002-11-19 19:55:00	2002-11-19 20:00:00	004	Day	351603	<input type="checkbox"/>	<input type="checkbox"/>
MOD021KM.A2002323.2000.004.20023240938533.hdf	2002-11-19 20:00:00	2002-11-19 20:05:00	004	Day	351603	<input type="checkbox"/>	<input type="checkbox"/>

Product: MOD021KM
Page: 1

1. To order the full product, DO NOT select any channel. To select the channels, click the corresponding check box from the list of channels below.

2. Click "Add Selections to Order" button located at the bottom of the page to order the selected items.

Note:

- You will receive a file per selected granule containing all the selected channels.
- If the result of granule search is displayed in multiple pages, increase maximum number of items displayed per page while selecting the spatial range (previous page).
- The total size of the orders shown corresponds to full-size granules. However, size of the subset product produced will be that of selected channels only.
- Maximum of 16 channels per granule can be selected.
- Reflected solar bands are not available in Night granules.
- The default output format is HDF-EOS. Selecting "Binary" as the output format, will produce a tar file (produced using UNIX tar utility) containing data as binary files and attributes as text files.
- On-demand sub-setting service is accessible with JavaScript capable browsers only. If your browser does not support JavaScript, contact MODIS User Services (Phone 301-614-5473, Fax 301-614-5304, daac_user@gsfc.nasa.gov).

Scroll down page for output file format and channel subsetting

One may view browse images

Output format
☒ HDF-EOS ☐ Binary (tarred)

Selection of Bands

Reflected Solar Bands	Emissive Bands
Aggregated 250 m	Aggregated 500 m
<input checked="" type="checkbox"/> Band 1 (620-670 nm)	<input type="checkbox"/> Band 8 (405-420 nm)
<input checked="" type="checkbox"/> Band 2 (841-876 nm)	<input type="checkbox"/> Band 9 (438-448 nm)
<input type="checkbox"/> Band 3 (459-479 nm)	<input type="checkbox"/> Band 10 (483-493 nm)
<input type="checkbox"/> Band 4 (545-565 nm)	<input type="checkbox"/> Band 11 (526-536 nm)
<input type="checkbox"/> Band 5 (1230-1250 nm)	<input type="checkbox"/> Band 12 (546-556 nm)
<input type="checkbox"/> Band 6 (1628-1652 nm)	<input type="checkbox"/> Band 13L (662-672 nm)
<input type="checkbox"/> Band 7 (2105-2155 nm)	<input type="checkbox"/> Band 13H (662-672 nm)
	<input type="checkbox"/> Band 14L (673-683 nm)
	<input type="checkbox"/> Band 14H (673-683 nm)
	<input type="checkbox"/> Band 15 (743-753 nm)
	<input type="checkbox"/> Band 16 (862-877 nm)
	<input type="checkbox"/> Band 17 (890-920 nm)
	<input type="checkbox"/> Band 18 (931-941 nm)
	<input type="checkbox"/> Band 19 (915-965 nm)
	<input type="checkbox"/> Band 20 (3.660-3.840 μm)
	<input type="checkbox"/> Band 21 (3.929-3.989 μm)
	<input type="checkbox"/> Band 22 (3.939-3.989 μm)
	<input type="checkbox"/> Band 23 (4.020-4.080 μm)
	<input type="checkbox"/> Band 24 (4.433-4.433 μm)
	<input type="checkbox"/> Band 25 (4.433-4.433 μm)
	<input type="checkbox"/> Band 26 (6.535-6.895 μm)
	<input type="checkbox"/> Band 27 (6.535-6.895 μm)
	<input type="checkbox"/> Band 28 (7.175-7.475 μm)
	<input type="checkbox"/> Band 29 (8.400-8.700 μm)
	<input type="checkbox"/> Band 30 (9.580-9.880 μm)
	<input type="checkbox"/> Band 31 (10.780-11.280 μm)
	<input type="checkbox"/> Band 32 (11.770-12.270 μm)
	<input type="checkbox"/> Band 33 (13.185-13.485 μm)
	<input type="checkbox"/> Band 34 (13.485-13.785 μm)
	<input type="checkbox"/> Band 35 (13.785-14.085 μm)
	<input type="checkbox"/> Band 36 (14.085-14.385 μm)

Clear Select All Clear Select All Clear Select All

Add Selections To Order

MODIS MOD021KM Browse Image and Coordinates for 2002-NOV-19 18:20:00 to 2002-NOV-19 18:25:00

Browse Image and Coordinates for 2002-NOV-19 18:20:00 to 2002-NOV-19 18:25:00

New User Registration Update Registration Order Status HELP Send Comments

Browse Image Corner Coordinates

No	Latitude	Longitude
1	43.1842	-124.3403
2	39.1815	-96.6034
3	21.8088	-103.4870
4	24.9263	-126.3398

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Nice! Select this granule, choose output format, and then pick the channels.

Finally "Add Selections to Order" (you'll be asked for username and password)

Prompt

Enter username and password for "DAAC Search and Order" at daac.gsfc.nasa.gov

User Name:

Password:

☐ Use Password Manager to remember these values.

OK Cancel

WHOM Current Order Status

Your Media Choice

NO SELECTION
NO SELECTION
FTP-Pull
FTP-Push
8mm
DLT

Choose the media type you want the data on (supplier dependent). Make sure volume limit isn't exceeded!

If we had multiple granules we could group them together and have a one line summary

Delete items, continue shopping, or proceed to checkout. Let's add some more data.

MODIS Ocean Products

Return to the top
“MODIS Data
Products” page (use
your web browser to
go back to this),
and then select
“Ocean” data

Let's select Level 2
Ocean Data Products
for this example

MODIS Data Products - Mozilla (Build ID: 2002053012)

GES DISC DAAC (GSFC DAAC)

MODIS Ocean Level 2, 3 and 4 Products

[New User Registration](#) [Update Registration](#) [Review Order](#) [Cancel Order](#) [Submit Order](#) [HELP](#)

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The [Ocean Products Information](#) site is available to help navigate through the large amount of ocean information to find products that best suit your interests.

The link in the **Product Group** column below takes you to the specific Product Group.

Product Group	Description	Begin Date	End Date
Level 2	Level 2 Ocean Data Products	2000-04-26 10:40:00	2002-11-14 05:45:00
Level 3 Binned	Level 3 Ocean Binned Products	2000-03-01 00:00:00	2002-11-12 23:59:59
Level 3 Mapped	Level 3 Ocean Mapped Products	2000-03-01 00:00:00	2002-11-12 23:59:59
Level 3 QC	Level 3 Ocean QC Products	2000-04-22 00:00:00	2002-11-12 23:59:59
Level 4 Binned	Level 4 Primary Productivity Binned Products.	2000-03-13 00:00:00	2002-10-31 23:59:59
Level 4 Mapped	Level 4 Primary Productivity Mapped Products.	2000-03-13 00:00:00	2002-10-31 23:59:59

[Privacy Statement](#) | [Website Security](#)

[MODIS User Services](#): 301-614-5473 Fax: 301-614-5304

Document Done (0.35 secs)

MODIS Ocean L2 Products

MODIS Level 2 Ocean Data Products - Mozilla (Build ID: 2002053012)

GES DISC DAAC (GSFC DAAC)

MODIS Level 2 Ocean Data Products

Each link in the **Data Product** column below takes you to a list of years in which that product is available.

Data Product	Description	Begin Date	End Date
MOD28L2 SST	Level 2 Sea Surface Temperature Product. Contains day time and night time SSTs from Thermal and Middle IR bands (MOD28L2).	2000-04-27 08:15:00	2002-11-14 05:45:00

For this example pick the Level 2 Sea Surface Temperature data product (MOD28L2 SST)

Then pick a year (2002)

Each link in the **Year** column below takes you to a list of months for that year.

Year	Begin Date	End Date	Number of Items	Average Size (KB)
2000	2000-04-27 08:15:00	2001-01-01 00:00:00	31188	33398
2001	2001-01-01 00:00:00	2002-01-01 00:00:00	99514	33878
2002	2002-01-01 00:00:00	2002-11-14 05:45:00	88961	33883

And choose a day from the calendar (November 13)

NOVEMBER						
3813 Data Granules						
Su	Mo	Tu	We	Th	Fr	Sa
					01 288	02 288
03 288	04 288	05 288	06 288	07 288	08 288	09 288
10 288	11 288	12 288	13 288	14 288	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

MODIS Ocean L2 Spatial Search

The MODIS L2 Ocean Spatial Search is a bit different, in that it includes a set of additional recommended data products to order (this product doesn't include geolocation information, thus the geolocation product MOD03 is included as one of the recommended products)

Let us keep the additional recommended data products, choose a region centered around Hawaii, and start the granule search

MODIS MOD28L2 Data for 2002-NOV-13 - Mozilla {Build ID: 2002053012}

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://daac.gsfc.nasa.gov/daac-bin/whom/map_gi Search Print

West Longitude South Latitude
East Longitude North Latitude
ShiftMap

Color area ■ ■ ■ ■ ■
Number of granules per area 1 7 14 20 27
Display no more than items per page.

Related data Products	MOD28QC	MOD03	MOD0CL2	MOD0CL2A	MOD0CL2B
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Start Search **Reset**

Attribute Option
Below you have the option to select granules by attributes. Click here for [attribute definitions](#)
SELECT 'DAY/NIGHT' ATTRIBUTE: **Regenerate Map**

Transferring data from daac.gsfc.nasa.gov...

MODIS Ocean L2 Search Results

MODIS Level 2 Sea Surface Temperature Product - Mozilla (Build ID: 2002053012)

11 granules found for product **MOD28L2**.
Page 1: items 1 through 11; with volume of 364.058 MB.

Item ID	Begin Date	End Date	Version	Day/Night Flag	Item Size (KB)	Select to Order	Image
MOD28L2.A2002317.0655.004.2002323171346.hdf	2002-11-13 06:55:00	2002-11-13 07:00:00	004	Night	33861	<input type="checkbox"/>	
MOD28L2.A2002317.0825.004.2002323173416.hdf	2002-11-13 08:25:00	2002-11-13 08:30:00	004	Night	33861	<input type="checkbox"/>	
MOD28L2.A2002317.0830.004.2002323173402.hdf	2002-11-13 08:30:00	2002-11-13 08:35:00	004	Night	33861	<input type="checkbox"/>	
MOD28L2.A2002317.0835.004.2002323173433.hdf	2002-11-13 08:35:00	2002-11-13 08:40:00	004	Night	33861	<input type="checkbox"/>	
MOD28L2.A2002317.1005.004.2002323174955.hdf	2002-11-13 10:05:00	2002-11-13 10:10:00	004	Night	33861	<input type="checkbox"/>	
MOD28L2.A2002317.1010.004.2002323175035.hdf	2002-11-13 10:10:00	2002-11-13 10:15:00	004	Night	33861	<input type="checkbox"/>	
MOD28L2.A2002317.2035.004.2002323193502.hdf	2002-11-13 20:35:00	2002-11-13 20:40:00	004	Day	33861	<input type="checkbox"/>	
MOD28L2.A2002317.2040.004.2002323193557.hdf	2002-11-13 20:40:00	2002-11-13 20:45:00	004	Day	33861	<input type="checkbox"/>	
MOD28L2.A2002317.2045.004.2002323193707.hdf	2002-11-13 20:45:00	2002-11-13 20:50:00	004	Day	34193	<input type="checkbox"/>	
MOD28L2.A2002317.2215.004.2002323194515.hdf	2002-11-13 22:15:00	2002-11-13 22:20:00	004	Day	33861	<input type="checkbox"/>	
MOD28L2.A2002317.2220.004.2002323194536.hdf	2002-11-13 22:20:00	2002-11-13 22:25:00	004	Day	33861	<input type="checkbox"/>	

Product: MOD28L2
Page: [1](#)

Product: MOD28QC Quality Flag
Page: [1](#)

Product: MOD03 Geolocation
Page: [1](#)

Product: MOD0CL2 Ocean Color Radiance
Page: [1](#)

Product: MOD0CL2A Derived Products Group 1
Page: [1](#)

Product: MOD0CL2B Derived Products Group 2
Page: [1](#)

Reset Select All Found Add Selections To Order Add All Items To Order

Click the "Reset" button to clear the checkboxes for all items on this page.
Click the "Select All Found" button to select all items on this page.
Click the "Add Selections to Order" button to order the items which you have selected by clicking their checkboxes.
Click the "Add All Items To Order" button to order all items (on all pages) found by the search.

[Privacy Statement](#) | [Website Security Warning](#) | [Accessibility Statement](#) | [Non-NASA Links](#)

"Add All Items To Order" this time to add all granules with a single click

WHOM Additions to Order

GES DAAC Current Order - Mozilla (Build ID: 2002053012)

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://daac.gsfc.nasa.gov/daac-bin/whom/registered/AddToC Search Print

Media Selection

Supplier	Data Volume Limits By Media								Your Order Total	Your Media Choice
	FTP-Pull		FTP-Push		8mm		DLT			
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
ECS On-demand Subset Products	0	16.93 GB	0	16.93 GB	1 MB	16.93 GB	1 MB	16.93 GB	97 MB	FTP-Push
ECS Full-Sized Products	0	23.28 GB	0	55.88 GB	1 MB	50 GB	1 MB	100 GB	3.11 GB	NO SELECTION

Shopping Cart Contents

Your selections are shown below, the highlighted portion (if any) indicates the most recent addition. For data-related disclaimers, visit [disclaimers](#).

Group by data product

Delete?	Data Set	Data Product	Start Date	End Date	Size (KB)	Local Granule ID
<input type="checkbox"/>	MODIS	MOD03 Geolocation	2002-11-13 06:55:00	2002-11-13 07:00:00	62121	MOD03.A2002317.0655.004.20023172017
<input type="checkbox"/>	MODIS	MOD03	2002-11-13 06:55:00	2002-11-13 07:00:00	62121	MOD03.A2002317.0825.004.20023172220
<input type="checkbox"/>	MODIS	MOD03	2002-11-13 06:55:00	2002-11-13 07:00:00	62121	MOD03.A2002317.0830.004.20023172220
<input type="checkbox"/>	MODIS	MOD03	2002-11-13 06:55:00	2002-11-13 07:00:00	62121	MOD03.A2002317.0835.004.20023172221
<input type="checkbox"/>	MODIS	MOD03	2002-11-13 06:55:00	2002-11-13 07:00:00	62121	MOD03.A2002317.1005.004.20023172239
<input type="checkbox"/>	MODIS	MOD03	2002-11-13 06:55:00	2002-11-13 07:00:00	62121	MOD03.A2002317.1010.004.20023172235
<input type="checkbox"/>	MODIS	MOD03 Geolocation	2002-11-13 20:35:00	2002-11-13 20:40:00	62121	MOD03.A2002317.2035.004.20023180734
<input type="checkbox"/>	MODIS	MOD03 Geolocation	2002-11-13 20:40:00	2002-11-13 20:45:00	62121	MOD03.A2002317.2040.004.20023180735
<input type="checkbox"/>	MODIS	MOD03 Geolocation	2002-11-13 20:45:00	2002-11-13 20:50:00	62732	MOD03.A2002317.2045.004.20023180736
<input type="checkbox"/>	MODIS	MOD03 Geolocation	2002-11-13 22:15:00	2002-11-13 22:20:00	62121	MOD03.A2002317.2215.004.20023180747
<input type="checkbox"/>	MODIS	MOD03 Geolocation	2002-11-13 22:20:00	2002-11-13 22:25:00	62121	MOD03.A2002317.2220.004.20023180749
<input type="checkbox"/>	MODIS	MOD28L2	2002-11-13 06:55:00	2002-11-13 07:00:00	33861	MOD28L2.A2002317.0655.004.2002323171
<input type="checkbox"/>	MODIS	MOD28L2	2002-11-13 08:25:00	2002-11-13 08:30:00	33861	MOD28L2.A2002317.0825.004.2002323173

Document Done (17.805 secs)

Recently added items are shown in bold and with a yellow background

Previous items are uncolored

We can group items by data product

GES DAAC Current Order - Mozilla (Build ID: 2002053012)

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://daac.gsfc.nasa.gov/daac-bin/whom/registered/Process Search Print

<input type="checkbox"/>	MODIS	Derived Products Group 1	2002-11-13 20:40:00	2002-11-13 20:45:00	109914	MOD0CL2A.A2002317.2040.004.200232320
<input type="checkbox"/>	MODIS	MOD0CL2A Derived Products Group 1	2002-11-13 20:45:00	2002-11-13 20:50:00	110996	MOD0CL2A.A2002317.2045.004.200232320
<input type="checkbox"/>	MODIS	MOD0CL2A Derived Products Group 1	2002-11-13 22:15:00	2002-11-13 22:20:00	109914	MOD0CL2A.A2002317.2215.004.200232320
<input type="checkbox"/>	MODIS	MOD0CL2A Derived Products Group 1	2002-11-13 22:20:00	2002-11-13 22:25:00	109914	MOD0CL2A.A2002317.2220.004.200232320
<input type="checkbox"/>	MODIS	MOD0CL2B Derived Products Group 2	2002-11-13 20:35:00	2002-11-13 20:40:00	84571	MOD0CL2B.A2002317.2035.004.200232320
<input type="checkbox"/>	MODIS	MOD0CL2B Derived Products Group 2	2002-11-13 20:40:00	2002-11-13 20:45:00	84571	MOD0CL2B.A2002317.2040.004.200232320
<input type="checkbox"/>	MODIS	MOD0CL2B Derived Products Group 2	2002-11-13 20:45:00	2002-11-13 20:50:00	85403	MOD0CL2B.A2002317.2045.004.200232320
<input type="checkbox"/>	MODIS	MOD0CL2B Derived Products Group 2	2002-11-13 22:15:00	2002-11-13 22:20:00	84571	MOD0CL2B.A2002317.2215.004.200232320
<input type="checkbox"/>	MODIS	MOD0CL2B Derived Products Group 2	2002-11-13 22:20:00	2002-11-13 22:25:00	84571	MOD0CL2B.A2002317.2220.004.200232320

Data from earlier additions:

<input type="checkbox"/>	MODIS	MOD021KM	2002-11-19 18:20:00	2002-11-19 18:25:00	99328	MOD021KM.A2002323.1820.004.200232405
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Delete All Items Delete Selected Items Delete Most Recent Addition

Return to Shopping Proceed to Checkout

Document Done (3.655 secs)

Grouped Items in Order

One can ungroup the products into individual items again

Items can be deleted from the order (here by product or by granule using the ungrouped page)

Remember to set the media type for newly added items

GES DAAC Current Order - Mozilla (Build ID: 2002053012)

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://daac.gsfc.nasa.gov/daac-bin/whom/registered/Process Search Print

Media Selection

Supplier	Data Volume Limits By Media								Your Order Total	Your Media Choice
	FTP-Pull		FTP-Push		Smm		DLT			
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
ECS On-demand Subset Products	0	16.93 GB	0	16.93 GB	1 MB	16.93 GB	1 MB	16.93 GB	97 MB	FTP-Push
ECS Full-Sized Products	0	23.28 GB	0	55.88 GB	1 MB	50 GB	1 MB	100 GB	3.11 GB	DLT

Shopping Cart Contents

Your selections are shown below. For data-related disclaimers, visit [disclaimers](#).

Ungroup (* Earliest/latest start/end dates shown.)

Delete?	Data Set	Data Product	Start Date*	End Date*	Size (KB)	Item Count	Other Params
<input type="checkbox"/>	MODIS	MOD021KM	2002-11-19 18:20:00	2002-11-19 18:25:00	99328	1	GRANULE_ID=SC:MOD021KM:004:18090902, Item Size=351603 KB, Parameters=(Format: HDFEOS, Number of bands: 7)
<input type="checkbox"/>	MODIS	MOD03 Geolocation	2002-11-13 06:55:00	2002-11-13 22:25:00	683942	11	
<input type="checkbox"/>	MODIS	MOD28L2	2002-11-13 06:55:00	2002-11-13 22:25:00	372803	11	
<input type="checkbox"/>	MODIS	MOD28QC Quality Flag	2002-11-13 06:55:00	2002-11-13 22:25:00	776029	11	
<input type="checkbox"/>	MODIS	MOD0CL2 Ocean Color Radiance	2002-11-13 20:35:00	2002-11-13 22:25:00	451912	5	
<input type="checkbox"/>	MODIS	MOD0CL2A Derived Products Group 1	2002-11-13 20:35:00	2002-11-13 22:25:00	550652	5	
<input type="checkbox"/>	MODIS	MOD0CL2B Derived Products Group 2	2002-11-13 20:35:00	2002-11-13 22:25:00	423687	5	

Delete All Items Delete Selected Items Delete Most Recent Addition

Return to Shopping Proceed to Checkout

Document Done (3.204 secs)

Proceed to checkout now

WHOM Checkout

GES DAAC Checkout - Mozilla (Build ID: 200205012)

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://daac.gsfc.nasa.gov/daac-bin/whom/registered/Process Search Print

GES DAAC Checkout

jjohnson@daac.gsfc.nasa.gov

Update Registration Send Comments HELP

Profile

James Johnson
Nasa Goddard Space Flight Center
Code 902
Greenbelt, Maryland 20771
United States
Phone: 301-614-5121
E-mail address: jjohnson@daac.gsfc.nasa.gov

Order Size and Media Selection Summary

Supplier	Your Order Total	Your Media Choice
ECS On-demand Subset Products	97 MB	FTP-Push
ECS Full-Sized Products	3.11 GB	DLT
Grand Total:	3.20 GB	

Additional information required for FTP-Push

FTP Host Name:
FTP Directory:
FTP User Name:
FTP Password:

Selected Items

For data-related disclaimers, visit [disclaimers](#).

Data Set	Data Product	Start Date	End Date	Size (KB)	Local Granule ID
MODIS	MOD03 Geolocation	2002-11-13 06:55:00	2002-11-13 07:00:00	62121	MOD03.A2002317.0655.004.2002317201717.hdf

Document: Done (4.466 secs)

E-mail and tape media orders will be sent to the addresses shown under "Profile" (you can change these under "Update Registration")

For FTP-Push orders, please fill out all necessary information

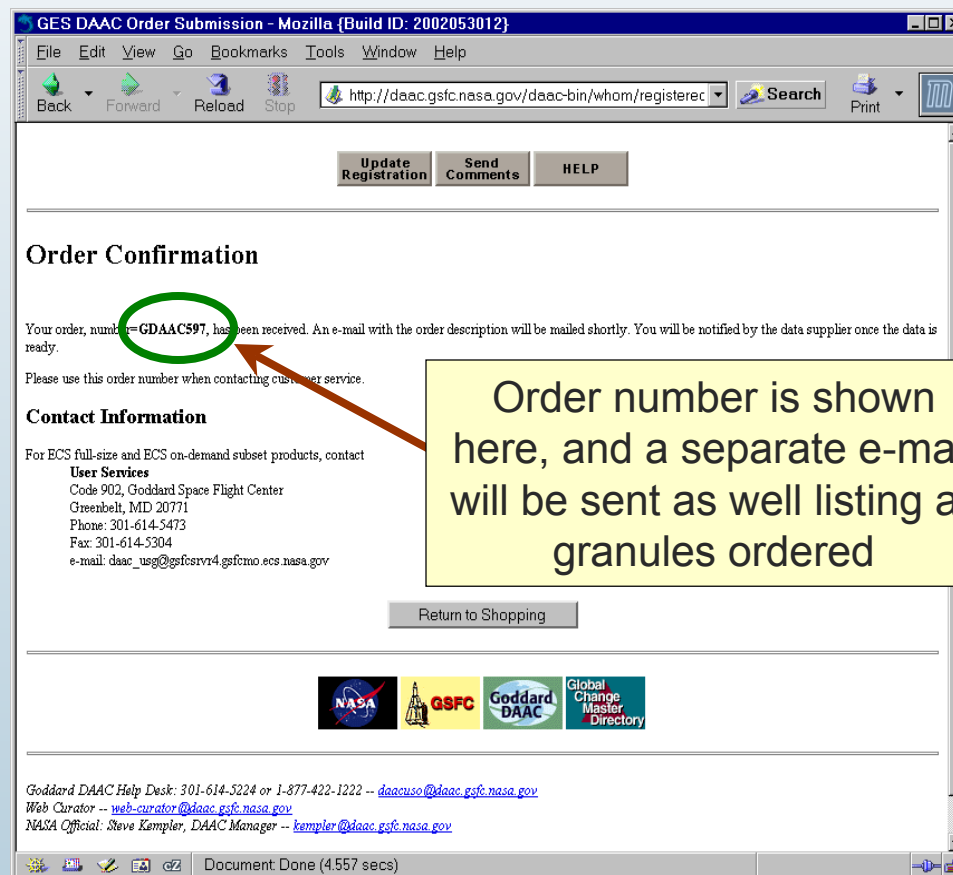
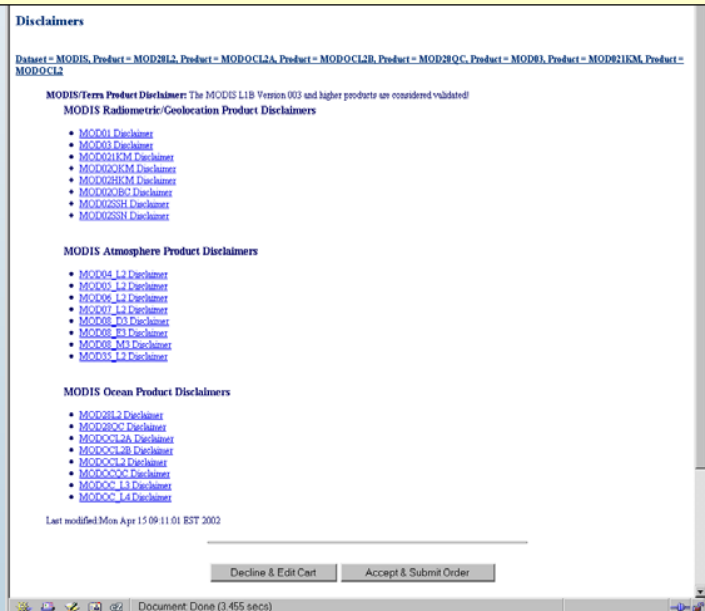
Additional information required for FTP-Push

FTP Host Name:
FTP Directory:
FTP User Name:
FTP Password:

Scroll to bottom of page, and click "Continue Checkout"

WHOM Order Confirmation

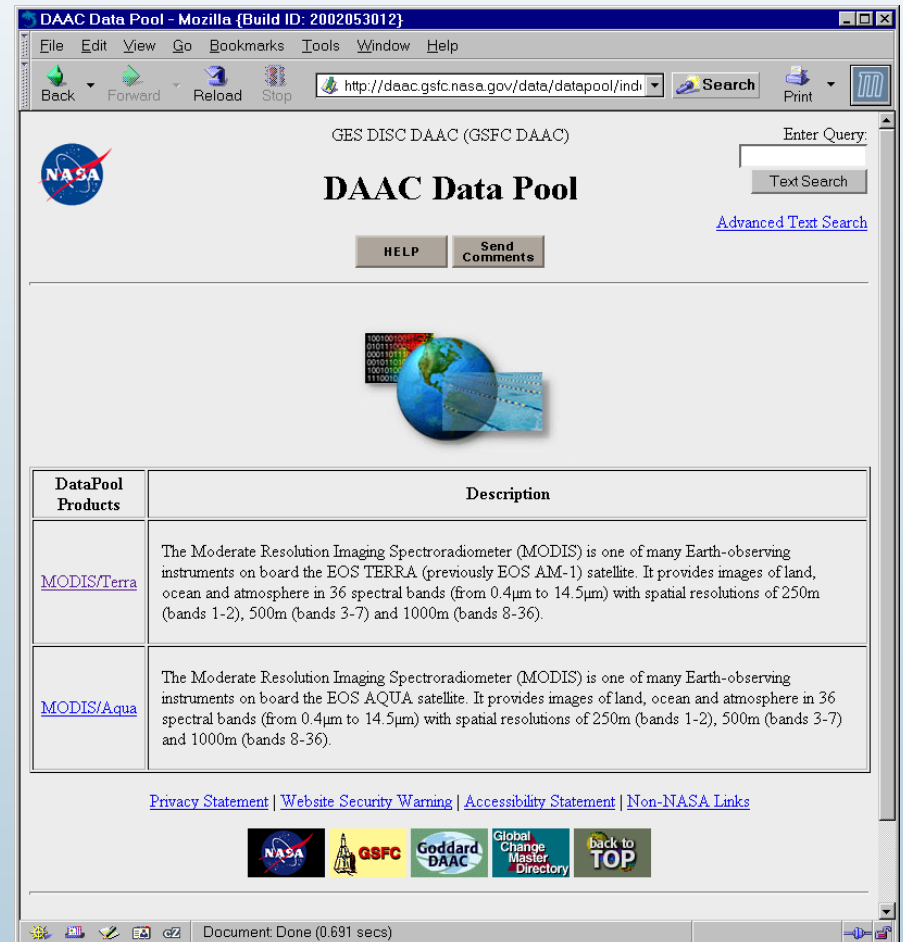
Some products require acceptance of a disclaimer before the order can be confirmed



Order number is shown here, and a separate e-mail will be sent as well listing all granules ordered

WHOM Data Pool Access

- Data Pool is an online FTP archive
- >50TB Space
- Holds recent popular items (currently only MODIS products)
- Quickly download data to your computer



WHOM Data Pool Example

MODIS/Terra Data Products - Mozilla (Build ID: 2002053012)

GES DISC DAAC (GSFC DAAC)

Enter Query:

Text Search

HELP Send Comments

Welcome to the Moderate Resolution Imaging Spectroradiometer (MODIS) data set. This data set consists of Radiance and Geolocations, Atmosphere and Ocean data made by the MODIS instrument on board the Terra (EOS AM-1) satellite. The Ocean binned and Level 4 products are in the native HDF4 format. For products please see this [MODIS Data Support](#) or click on the MODIS icon.

The link in the **User View** column below takes you to the specific MODIS product.

User View	Description
Radiance and Geolocation	MODIS Level 1A and Level 1B data (Radiance calibrated radiances and geolocation)
Atmosphere	MODIS Atmospheric Level 2 and Level 3 data
Ocean	MODIS Ocean Level 2 , Level 3 and Level 4 data

[Privacy Statement](#) | [Website Security Warning](#) | [Accessibility Statement](#)

NASA GSFC Goddard DAAC MODIS DATA SUPPORT

MODIS User Services: 301-614-5473; Fax: 301-614-5304 -- daac_usg@gssc.nasa.gov

MODIS/Terra Ocean Level 2, 3 and 4 Products - Mozilla (Build ID: 2002053012)

GES Distributed Active Archive Center

Enter Query:

Text Search

HELP Send Comments

The [Ocean Products Information](#) site is available to help navigate through the large amount of ocean products that best suit your interests.

The link in the **Product Group** column below takes you to the specific Product Group.

Product Group	Description	Begin Date	End Date
Level 2	Level 2 Ocean Data Products	2002-11-07 21:05:00	2002-11-08 23:59:59
Level 3 Mapped	Level 3 Ocean Mapped Products	2000-04-22 00:00:00	2002-11-08 23:59:59

[Privacy Statement](#) | [Website Security Warning](#) | [Accessibility Statement](#) | [Non-NASA Links](#)

NASA GSFC Goddard DAAC MODIS DATA SUPPORT Global Change Master Directory back to TOP

MODIS User Services: 301-614-5473; Fax: 301-614-5304 -- daac_usg@gssc.nasa.gov

MODIS/Terra Level 3 Mapped Ocean Products - Mozilla (Build ID: 2002053012)

GES Distributed Active Archive Center

Enter Query:

Text Search

Advanced Text Search

HELP Send Comments

The [Ocean Products Information](#) site is available to help navigate through the large amount of ocean information to find products that best suit your interests.

Each link in the **Data Product** column below takes you to the respective Data Product.

Data Product	Description	Begin Date	End Date
MO04MD 4km Daily	Level 3 Ocean Mapped 4KM Daily Product (Mean)	2000-04-22 00:00:00	2002-11-15 23:59:59
MO04OD 4km Daily	Level 3 Ocean Mapped 4KM Daily Product (Quality Level)	2000-04-22 00:00:00	2002-11-15 23:59:59
MO04MW 4km Weekly	Level 3 Ocean Mapped 4KM Weekly Product (Mean)	2000-10-07 00:00:00	2002-11-08 23:59:59
MO04OW 4km Weekly	Level 3 Ocean Mapped 4KM Weekly Product (Quality Level)	2000-10-07 00:00:00	2002-11-08 23:59:59
MO04MM 4km Monthly	Level 3 Ocean Mapped 4KM Monthly Product (Mean)	2002-10-01 00:00:00	2002-10-31 23:59:59
MO04OM 4km Monthly	Level 3 Ocean Mapped 4KM Monthly Product (Quality Level)	2000-09-01 00:00:00	2002-10-31 23:59:59

[Privacy Statement](#) | [Website Security Warning](#) | [Accessibility Statement](#) | [Non-NASA Links](#)

Document Done (0.561 secs)

Pick MODIS Ocean Level 3 at 4km Resolution Weekly Mean Values (MO04MW) for year 2002

Each link in the **Year** column below takes you to a list of months for that year.

Year	Begin Date	End Date	Number of Items	Average Size (KB)
2000	2000-10-07 00:00:00	2000-10-14 23:59:59	1	68825
2002	2002-10-24 00:00:00	2002-11-08 23:59:59	41	68825

WHOM Data Pool with Parameter Subset Example

This is a multi-parameter product which can be easily subsetted by parameter

GES DISC DAAC (GSFC DAAC)

MODIS/Terra Level 3 Ocean Mapped Weekly Ocean Color and Sea Surface Temperature (Mean) for 2002

Enter Query: [Advanced Text Search](#)

The [Ocean Products Information](#) site is available to help navigate through the large amount of ocean information to find products that best suit your interests.

Make your selection for the **Month** and proceed.

Month	Begin Date	End Date	Number of Items	Average Size (KB)	Select to Order
October	2002-10-24 00:00:00	2002-10-31 23:59:59	19	68825	<input type="checkbox"/>
November	2002-11-01 00:00:00	2002-11-08 23:59:59	22	68825	<input checked="" type="checkbox"/>

Related data Products: ☐ MO04QW

Select the products you want to order:

Ocean Color: Group 1

- ☐ 01_Normalized water-leaving radiance at 412 nm
- ☐ 02_Normalized water-leaving radiance at 443 nm
- ☐ 03_Normalized water-leaving radiance at 488 nm
- ☐ 04_Normalized water-leaving radiance at 531 nm
- ☐ 13_Chlorophyll-a + pheopigment (fluorometric, optical)
- ☒ 14_Chlorophyll-a pigment concentration (HPLC, empirical)

Ocean Color: Group 2

- ☐ 15_Total pigment concentration (HPLC, empirical)
- ☐ 16_Chlorophyll fluorescence line height
- ☐ 17_Chlorophyll fluorescence baseline
- ☐ 18_Chlorophyll fluorescence efficiency
- ☐ 19_Total Suspended matter concentration in ocean
- ☐ 20_Pigment concentration in coccolithophore blooms
- ☐ 21_Detached coccolithophore concentration
- ☐ 22_Calcite concentration
- ☐ 23_Diffuse attenuation coefficient at 490 nm
- ☐ 24_Phycoerythrobilin concentration
- ☐ 25_Phycoerythrin concentration

MODIS/Terra Level 3 Ocean Mapped Weekly Ocean Color and Sea Surface Temperature (Mean) for 2002

Enter Query: [Advanced Text Search](#)

The [Ocean Products Information](#) site is available to help navigate through the large amount of ocean information to find products that best suit your interests.

Make your selection for the **Month** and proceed.

Month	Begin Date	End Date	Number of Items	Average Size (KB)	Select to Order
October	2002-10-24 00:00:00	2002-10-31 23:59:59	19	68825	<input type="checkbox"/>
November	2002-11-01 00:00:00	2002-11-08 23:59:59	22	68825	<input checked="" type="checkbox"/>

Related data Products: ☐ MO04QW

Select the products you want to order:

Ocean Color: Group 3

- ☐ 26_Chlorophyll-a concentration (SeaWiFS analog - OC3M)
- ☐ 27_Chlorophyll-a pigment concentration (semianalytic)
- ☐ 28_Instantaneous photosynthetically available radiation
- ☐ 29_Instantaneous absorbed radiation by phytoplankton for fluorescence
- ☐ 30_Gelbstoff absorption coefficient at 400 nm
- ☐ 31_Phytoplankton absorption coefficient at 675 nm
- ☐ 32_Total absorption coefficient at 400 nm
- ☐ 33_Total absorption coefficient at 443 nm
- ☐ 34_Total absorption coefficient at 488 nm
- ☐ 35_Total absorption coefficient at 531 nm
- ☐ 36_Total absorption coefficient at 675 nm

Sea Surface Temperature:

- ☒ 37 (D1)_Sea surface temperature (daytime), 11 micrometer
- ☐ 38 (D2)_Sea surface temperature (daytime), 4 micrometer
- ☐ 39 (N1)_Sea surface temperature (nighttime), 11 micrometer
- ☐ 40 (N2)_Sea surface temperature (nighttime), 4 micrometer

Choose the first week of November, and subset out parameters 14 (Chlorophyll-a) and 37 (SST). We will also include the recommended quality product (MO04QW). Then click "Start Search"

WHOM Data Pool File Download

From the search results page, click on the links under the Item ID column to download granules to your computer

*Future release will allow for multi-file downloads bundled together using Unix tar and with compression (early 2003)

MODIS/Terra Level 3 Ocean Mapped Weekly Ocean Color and Sea Surface Temperature (Mean)

Enter Query: Text Search [Advanced Text Search](#)

HELP Send Comments

List of Your Search Criteria

DATA_SET: MODIS_DP
PRODUCTS: MO04MW14#14
MO04MWD1#D1
MO04QW14#14
MO04QWD1#D1
SEARCH_TYPES: TimeSearch
Time Interval: 2002-11-01 00:00:00 to 2002-11-30 24:00
MAX_RETURN: 50
Total granules: 4
Total volume: 201.736 MB

2 granules found for product MO04MW_4km Weekly .
Page 1: items 1 through 2; with volume of 134.422 MB.

Item ID	Begin Date	End Date	Version	Item Size (KB)
MO04MW14.chlor_MODIS.ADD2002305.004.2002320224341.hdf	2002-11-01 00:00:00	2002-11-08 23:59:59	004	68825
MO04MWD1_sst.ADD2002305.004.2002321001009.hdf	2002-11-01 00:00:00	2002-11-08 23:59:59	004	68824

Product: MO04MW_4km Weekly
Page: [1](#)

Product: MO04QW_4km Weekly
Page: [1](#)

Document Done (3.325 secs)

Enter name of file to save to...

Save in: Modis

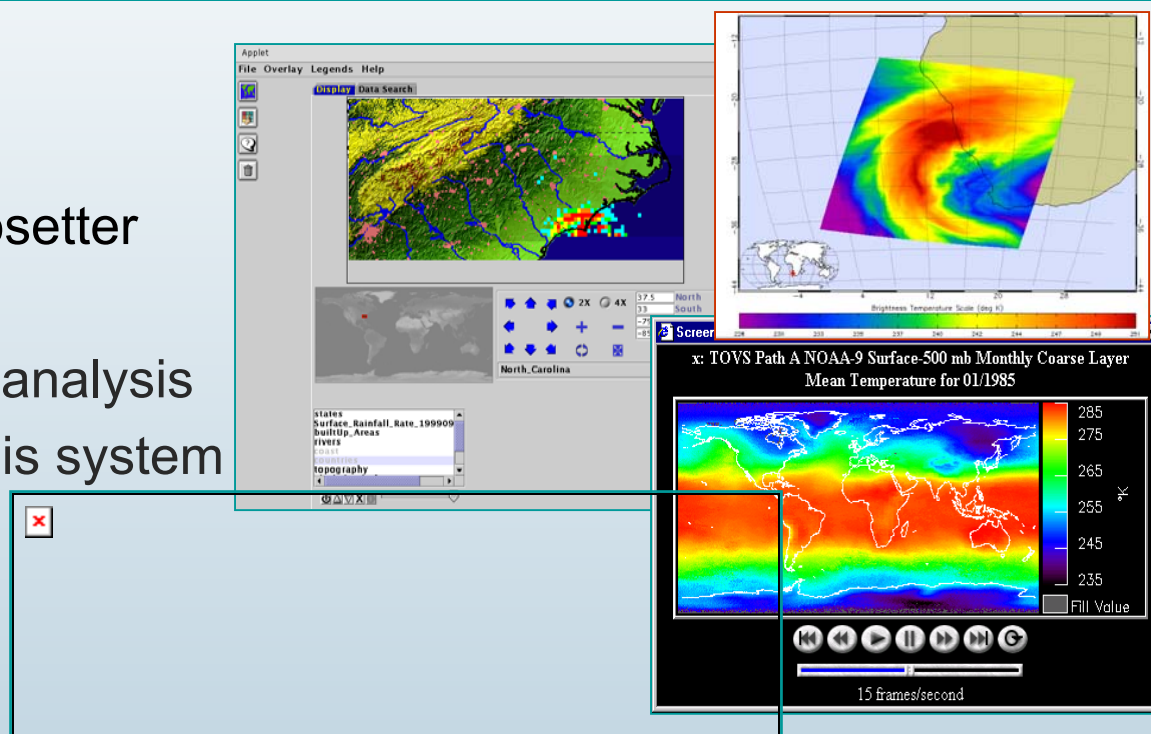
File name: 04MWD1_sstADD2002305.004.2002321001009.hdf

Save as type: All Files

Save Cancel

GES DAAC Developed HDF Tools

- Online Tools:
 - AIRS on-demand channel/variable subsetter
 - AIRS Quicklook
 - OASIS - online data analysis
 - TRMM online analysis system
 - WebGIS
- Desktop Tools:
 - HDFLook-MODIS
 - simap
 - TRMM HDF



For more information on these tools please see our poster titled "GES DAAC HDF Data Processing and Visualization and Tools". This poster will also be presented at the AGU conference on Friday at 8:30 AM (OS51B-0176), plus come visit our booth.